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ARTICLE 34 AMENDMENTS

CLAIMS

1. An expression vector,
 which comprises: (a) a first coding region encoding a
 5 polypeptide having molecular chaperone activity, and
 (b) a region having at least one restriction enzyme
 site in which a second coding region encoding a protein can
 be inserted,

the first coding region being operatively linked to a
 10 promoter, and the restriction enzyme site being in the same
 reading frame as the first coding region, and being
 downstream of the first coding region.

2. An expression vector,
 15 which comprises: (a) a first coding region encoding a
 polypeptide having molecular chaperone activity, and
 (b) a region having at least one restriction enzyme
 site in which a second coding region encoding a protein can
 be inserted,

20 the restriction enzyme site being disposed so that
 the inserted second coding region is operatively linked to
 a promoter, and the first coding region being in the same
 reading frame as the second coding region, and being
 downstream of the second coding region.

25 3. The expression vector according to claim 1 or 2,
 which has a region being between the first coding
 region and the region having at least one restriction
 enzyme site in which the second coding region can be
 30 inserted, and being translated in the same reading frame to
 be a protease digestion site.

4. An expression vector,
 wherein a second coding region encoding a protein is
 35 inserted into the expression vector according to claim 1, 2

or 3.

5. The expression vector according to claim 1, 2, 3
or 4,

5 wherein the polypeptide having molecular chaperone
activity is PPIase having molecular chaperone activity.

6. The expression vector according to claim 5,
wherein the PPIase having molecular chaperone
10 activity is FKBP-type PPIase.

7. The expression vector according to claim 5,
wherein the PPIase having molecular chaperone
activity is cyclophilin-type PPIase.

15 8. The expression vector according to claim 5,
wherein the PPIase having molecular chaperone
activity is parvulin-type PPIase.

20 9. The expression vector according to claim 6,
wherein the FKBP-type PPIase is archaeobacterial FKBP-
type PPIase.

25 10. The expression vector according to claim 9,
wherein the archaeobacterial FKBP-type PPIase is short
type FKBP-type PPIase.

11. The expression vector according to claim 5, 6, 7
or 8,
30 wherein the PPIase having molecular chaperone
activity comprises an IF domain and/or a C-terminal domain
of archaeobacterial FKBP-type PPIase.

12. The expression vector according to claim 6,
35 wherein the FKBP-type PPIase is trigger factor-type

PPIase.

13. The expression vector according to claim 5, 6, 7 or 8,

5 wherein the PPIase having molecular chaperone activity comprises a N-terminal domain and/or a C-terminal domain of trigger factor-type PPIase.

10 14. The expression vector according to claim 6, wherein the FKBP-type PPIase is FkpA-type PPIase.

15 15. The expression vector according to claim 5, 6, 7 or 8, wherein the PPIase having molecular chaperone activity comprises a N-terminal domain of FkpA-type PPIase.

16. The expression vector according to claim 6, wherein the FKBP-type PPIase is FKBP52-type PPIase.

20 17. The expression vector according to claim 5, 6, 7 or 8, wherein the PPIase having molecular chaperone activity comprises a C-terminal domain of FKBP52-type PPIase.

25 18. The expression vector according to claim 7, wherein the cyclophilin-type PPIase is CyP40-type PPIase.

30 19. The expression vector according to claim 5, 6, 7 or 8, wherein the PPIase having molecular chaperone activity comprises a C-terminal domain of CyP40-type PPIase.

35 20. The expression vector according to claim 8,

wherein the parvulin-type PPIase is SurA-type PPIase.

21. The expression vector according to claim 5, 6, 7 or 8,

5 wherein the PPIase having molecular chaperone activity comprises a N-terminal domain of SurA-type PPIase.

22. The expression vector according to claim 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20 or 21,
10 wherein the second coding region has a nucleotide sequence encoding a monoclonal antibody.

23. The expression vector according to claim 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20 or 21,
15 wherein the second coding region has a nucleotide sequence encoding a membrane protein.

24. A host,
which contains the expression vector according to
20 claim 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22 or 23.

25. The host according to claim 24,
which is *Escherichia coli*.
25

26. A fused protein,
which comprises a polypeptide having molecular
chaperone activity and a protein encoded by a second coding
region.
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27. The fused protein according to claim 26,
which comprises a protease digestion site.

28. A process for producing a fused protein
35 comprising a polypeptide having molecular chaperone

activity and a protein encoded by a second coding region,
which comprises culturing a host containing the
expression vector according to claim 4, 5, 6, 7, 8, 9, 10,
11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22 or 23 under
5 condition of expression of the expression vector, and
making express the fused protein in a cytoplasm.

29. A process for producing a fused protein
comprising a polypeptide having molecular chaperone
10 activity and a protein encoded by a second coding region,
which comprises providing a region being transcribed
and translated to be a signal sequence at a 5' terminus of
a first coding region or a 5' terminus of a second coding
region of the expression vector according to claim 4, 5, 6,
15 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22
or 23, and culturing a host containing the expression
vector under condition of expression of the expression
vector to express the fused protein in a periplasm or a
medium.

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30. A process for producing a fused protein
comprising a polypeptide having molecular chaperone
activity and a protein encoded by a second coding region,
which comprises making the expression vector
25 according to claim 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15,
16, 17, 18, 19, 20, 21, 22 or 23 express the fused protein
in a cell-free translation system.

31. The process for producing a fused protein
30 according to claim 28, 29 or 30,
wherein a fused protein is adsorbed on a carrier
harboring macrolide, cyclosporin, juglone or its analogous
compound inhibiting PPIase activity, and then the carrier
is recovered.

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32. A process for producing a protein encoded by a second region,

which comprises digesting the fused protein obtained by the process according to claim 28, 29, 30 or 31 with a
5 protease digesting a protease digestion site.